AMENDMENTS TO THE CLAIMS

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with <u>underlining</u> and deleted text with <u>strikethrough</u>. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 2, 7, 13, 14, and 34 to read as follows:

- 1. (CANCELLED)
- 2. (CURRENTLY AMENDED) A paper detecting apparatus of an image forming machine having a duplex printing function comprising:

an actuator pivotably disposed above a paper feed cassette and below a duplex printing paper path, that is moved by a paper; and

a paper sensor disposed next to the actuator that senses movement of the actuator and generates a signal,

wherein the actuator pivots in a predetermined angle when paper is being fed along the duplex printing paper path, and the paper sensor generates a signal upon sensing the actuator pivot;

wherein the actuator comprises:

- a hinge shaft;
- a center pivotably assembled around the hinge shaft;
- a first lever extending from the center that operates the paper sensor when no paper is stacked in the paper feed cassette;
- a second lever at a predetermined angle from the first lever, that operates the paper sensor when paper is fed along the duplex printing paper path; and
- a third lever, extending from the center and away from the first and second levers into the paper feed cassette to determine if sheets are stacked in the paper feed cassette and[[,]] weighing more than the combined weight of the first and second levers to have a tendency to pivot downward.
- 3. (ORIGINAL) The paper detecting apparatus of an image forming machine according to claim 2, wherein the predetermined angle is determined so the second lever does not operate the paper sensor when the third lever is in contact with paper on the paper feed

cassette.

- 4. (ORIGINAL) The paper detecting apparatus of an image forming machine according to claim 2, wherein the paper feed cassette has a slot that allows the third lever to pass through.
- 5. (PREVIOUSLY PRESENTED) The paper detecting apparatus of an image forming machine according to claim 2, further comprising a stopper formed on the duplex printing paper path limiting pivoting space of the actuator.
- 6. (PREVIOUSLY PRESENTED) The paper detecting apparatus of an image forming machine according to claim 2, wherein the paper sensor is a photo sensor.
- 7. (CURRENTLY AMENDED) A paper detecting apparatus of an image forming machine, including a hinge shaft under a duplex printing paper path, comprising:

an actuator, having a first lever, a second lever, a third lever and a center, pivotably assembled on the hinge shaft;

a paper sensor, having a sensing area; and

a paper pressing plate of a paper feed cassette, the paper pressing plate having a slot; wherein,

the second lever extending extends from the center and interfered by a paper when the paper moves along the duplex printing paper path;

the first lever extending extends from the center at a predetermined angle from the second lever; and

the third lever extending extends from the center and away from the first and second levers and is heavier than the combined weight of the first and second levers, and wherein

the third lever pivots downward to be inserted into the slot so the first lever is normally located inside the sensing area of the paper sensor when no paper is stacked in the paper feed cassette, and

the second lever pivots into the sensing area of the paper sensor, and then escapes from the sensing area of the paper sensor due to the weight of the third lever when paper moves along the duplex printing paper path.

- 8. (ORIGINAL) The paper detecting apparatus of an image forming machine according to claim 7, wherein a rear end of a slot formed in the duplex printing paper path interferes with the second lever when the first lever is located inside the sensing area of the paper sensor.
- 9. (ORIGINAL) The paper detecting apparatus of an image forming machine according to claim 7, wherein the second lever is not located inside the sensing area of the paper sensor when the third lever is in contact with paper stacked in the paper feed cassette.
- 10. (ORIGINAL) The paper detecting apparatus of an image forming machine according to claim 7, wherein the paper sensor is a photo sensor.
- 11. (PREVIOUSLY PRESENTED) A paper detecting apparatus of an image forming machine, including a hinge shaft under a duplex printing paper path, having a first slot, a paper feed cassette in which paper is normally stacked, and a sensor having a sensing area, comprising:
 - a paper pressing plate having a second slot;
 - an actuator, having a center, on the hinge shaft;
 - a first lever extending in a first direction from the center of the actuator;
- a second lever extending in a second direction from the center of the actuator such that a free end of the second lever extends into the first slot of the duplex printing paper path; and
 - a third lever extending in a third direction from the center of the actuator,

wherein the third lever is heavier than a combined weight of the first lever and the second lever, is inserted into the second slot when no paper is stacked in the paper feed cassette, causes the actuator to pivot such that the first lever enters the sensing area of the sensor, is light enough so as to be moved by the impact of a paper moving along the duplex printing paper path against the second lever, and allows the actuator to pivot such that the second lever enters the sensing area of the sensor when the paper moves along the duplex printing paper path.

- 12. (ORIGINAL) The paper detecting apparatus according to claim 11, wherein the actuator is shaped like a letter "Y".
- 13. (CURRENTLY AMENDED) The paper detecting apparatus according to claim 11, wherein the <u>first</u> slot in the duplex printing path-comprises a rear end.

- 14. (CURRENTLY AMENDED) The paper detecting apparatus according to claim 13, wherein the <u>first</u> slot in the duplex printing path has a length so the rear end of the slot acts as a stopper for the second lever to limit a pivoting space of the actuator when no paper is stacked in the paper feed cassette.
- 15. (ORIGINAL) The paper detecting apparatus according to claim 11, wherein the third lever maintains contact with an upper surface of paper stacked in the paper feed cassette.
- 16. (PREVIOUSLY PRESENTED) The paper detecting apparatus according to claim 11, wherein the sensor is normally between the first and second levers when the paper is stacked in the paper feed cassette.
- 17. (PREVIOUSLY PRESENTED) The paper detecting apparatus according to claim 11, wherein the sensor includes a limit switch.
- 18. (ORIGINAL) The paper detecting apparatus according to claim 11, wherein the sensor comprises a photo-sensor.
 - 19. (CANCELLED)
- 20. (PREVIOUSLY PRESENTED) The paper detecting apparatus according to claim 11, wherein, when the paper is stacked in the paper feed cassette, the first and second levers are normally forced out of the sensing area of the sensor.

21-22. (CANCELLED)

- 23. (PREVIOUSLY PRESENTED) The paper detecting apparatus according to claim 20, further comprising a front end of the second slot in the paper pressing plate to stop the third lever from pivoting.
- 24. (PREVIOUSLY PRESENTED) The paper detecting apparatus according to claim 23, wherein, when the first lever enters the paper sensing area of the sensor, the sensor generates a signal that no paper remains in the paper feed cassette.

- 25. (ORIGINAL) The paper detecting apparatus according to claim 24, wherein the image forming machine receives the signal from the sensor, and compares a length of the signal with a standard length.
- 26. (PREVIOUSLY PRESENTED) The paper detecting apparatus according to claim 25, wherein, when the length of the signal is shorter than the standard length, the image forming machine judges that the paper is being fed along the duplex printing paper path.
- ^{27.} (PREVIOUSLY PRESENTED) The paper detecting apparatus according to claim 25, wherein, when the length of the signal is longer than the standard length, the image forming machine judges that no paper remains in the paper feed cassette.
- 28. (PREVIOUSLY PRESENTED) The paper detecting apparatus according to claim 20, wherein, when the paper moves along the duplex printing paper path after being fed into the image forming machine, the paper impacts the second lever, thereby causing the second lever to pivot into the sensing area of the sensor.
- 29. (PREVIOUSLY PRESENTED) The paper detecting apparatus according to claim 28, wherein, when the impact between the paper and the second lever dissipates, the third lever causes the second lever to pivot out of the sensing area of the sensor.
- 30. (PREVIOUSLY PRESENTED) The paper detecting apparatus according to claim 29, wherein during the period when the second lever is inside the sensing area of the sensor, the sensor generates a signal that the paper is being fed along the duplex printing paper path.
- 31. (ORIGINAL) The paper detecting apparatus according to claim 30, wherein the image forming machine receives the signal from the sensor, and compares a length of the signal with a standard length.
- 32. (PREVIOUSLY PRESENTED) The paper detecting apparatus according to claim 31, wherein, when the length of the signal is longer than the standard length, the image forming machine judges that no paper remains in the paper feed cassette.

- 33. (PREVIOUSLY PRESENTED) The paper detecting apparatus according to claim 31, wherein, when the length of the signal is shorter than the standard length, the image forming machine judges that the paper is being fed along a duplex printing paper path.
- 34. (PREVIOUSLY PRESENTED) The paper detecting apparatus according to claim 31, wherein, when a rear end of the paper being fed along the duplex printing paper path leaves the first slot-of the duplex printing paper path, the second lever enters the <u>first</u> slot-in the duplex printing paper path.
 - 35. (CANCELLED)